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5 A microcell base station for a multilayer radio  
communication cellular network, comprising a wire  
interface (5) for connection to a wire access network (6)  
and an air interface (8) for communicating by radio with  
mobile station in accordance with a time division multiple  
access operating mode, with signal frames each divided  
into a number N of successive timeslots, wherein telephone  
communications involving a mobile station located within  
10 radio range of the equipment can be established through  
the wire network by means of the wire interface and the  
air interface, and wherein the air interface is arranged  
to transmit a radio signal in each timeslot of the frames  
on a beacon frequency, wherein the radio signal  
15 transmitted on the beacon frequency comprises a beacon  
signal carrying signalling information, in at least one  
timeslot as long as at most N-1 of the timeslots of the  
frame on the beacon frequency are occupied by  
communications with mobile stations, and wherein the air  
20 interface stops transmitting the beacon signal when the N  
timeslots on the beacon frequency are occupied by  
communications with mobile stations.

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